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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/413,552 10/06/99 HAWKS

D 50944.2300

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MMC2/0327

EXAMINER

NGO, H

ART UNIT

PAPER NUMBER

2831

DATE MAILED:

03/27/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

# Office Action Summary

Application No.  
09/413,552

Applicant(s)  
Hawks et al

Examiner  
Hung V Ngo

Group Art Unit  
2831

☒ Responsive to communication(s) filed on Feb 22, 2001

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claims

☒ Claim(s) 1-9 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

☐ Claim(s) \_\_\_\_\_ is/are allowed.

☒ Claim(s) 1-9 is/are rejected.

☐ Claim(s) \_\_\_\_\_ is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☒ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been  
☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 2

☐ Interview Summary, PTO-413

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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## **DETAILED ACTION**

### ***Oath/Declaration***

The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

Non-initialed and/or non-dated alterations have been made to the oath or declaration. See 37 CFR 1.52(c).

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Lemaire et al.

Lemaire et al disclose (as best shown in Fig 5) a substantially flat electrical connector (10) formed from a metal frame; a die attach pad (10) electrically isolated from said connector, said pad having a bottom surface; an encapsulant (14) surrounding a portion of said electrical connector and a portion of and said die attach pad, wherein said bottom surface of said die attach pad is substantially free of encapsulant.

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Re claim 2, wherein said connector and said pad are formed from a leadframe (col 7, lines 10-15).

Re claims 3, 4, the limitation “said connector and said pad are formed by etching a sheet of conductive material having removable material attached thereto” and “wherein said connector and said pad are attached to removable tape, and wherein said tape inhibits attachment of said encapsulant to said bottom surface of said pad” have been considered, but does not result in a structural difference. The presence of process limitations in product claims, which product does not otherwise patentably distinguish over prior art, cannot impart patentability to that product. In re Stephens 145 USPQ 656 (CCPA 1965).

Re claim 5, further comprising a plurality of rows of connectors located about a perimeter of said pad (Fig 7).

Re claim 6, Lemaire et al disclose (as best shown in Fig 5) an electronic device package configured to facilitate electrical connection between a device (12) and a substrate, said package comprising: a plurality of electrical connectors (10) formed by etching a sheet of conductive material (col 7, lines 10-15); and an encapsulant (14) attached to a portion of each of said plurality of electrical connectors, wherein said encapsulant is molded to each said portion by exposing said electrical connectors and a removable material attached to said connectors to a mold process (Fig 7)(col 9, lines 35-45).

Re claim 7, a die attach pad (10) proximate said connectors and electrically isolated from said connectors (Fig 5).

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Re claim 8, wherein said plurality of electrical connectors form a plurality of rows about a perimeter of the device (Fig 7).

Re claim 9, wherein said connectors are formed from a leadframe (col 7, lines 10-15).

*Communication*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung V. Ngo whose telephone number is (703) 308-7614. The examiner can normally be reached on Tuesday to Friday from 8:30 am to 06:00 pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine Kincaid, can be reached on (703) 308-0640.

The fax phone number for this Group is (703) 305-3431 or (703) 305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

HVN

March 19, 2001

 3/22/01  
Dean A. Reichard  
Primary Examiner